Rec'd March 13th Cambridge July 29. 1848.
Ans March 23

My Dear Doctor

I thought I should be hearing from you soon, and delayed writing to you partly on that account. Yours of the 15th came this morning, and I write back immediately, on account of the importance of what you say about Fendler, although my arm is so ~~tired~~ tired in writing copy for the Illustrations (which I hope to send some sheets of to Paris by a private hand on the 24th inst. — and therefore am driving hard) that I cannot write very legibly.

I shall write to Washington for early copies of your report to Wirlizenus' Report, that I may see what you have done. The information that W. gives about the physical character of the country will be interesting and very important to us. I will try at the seed Stores for bactaceous seeds for you, and ask Mr. Lowell, whose gardener should be able to secure some of those you need.

Advertise and enquire. Surely you must find those missing boxes of Fendler's, which are right under your nose at St. Louis. — Though the bacti be dead & gone, the dried plants will eke out Fendler's sets, and therefore his earnings.

Olney, at Providence, subscribes for a set. S. F. Carey (brother of J. C.) wants his without the plates. —

I hope the box you speak of will come soon. for I want to take up and publish Fendler plants now very soon. — Describe yourself the families you chose, and leave the rest to me. (Why does F. keep a set, if he goes back!)

Now for Fendler himself.

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He ought to go back, and without delay. He has gained much ~~useful~~ experience, and will now work to greater advantage. He makes invaluable specimens, and with your farther instructions will collect so as to make more equable sets. If he will stay and ride this time he can get on to the mountains, and must try the higher ones, especially those near Taos. I like your plans, and will immediately lay the whole before Mr. Lowell. I hope he will engage in it, but, besides what you are aware of, he has already advanced so much to help me along with Illustr. Genera, &c. — that I fear he will think there is no end to the wants of botanists. But if Fendler engages in this enterprize with spirit, it must be done somehow. (Let him collect land-shells too, &c.) —

But it will be best not to give him his whole outfit at once, not only to save such heavy advances, but because at Santa Fe he can sell his drafts on St. Louis at a good premium, no doubt. — Say he has $250 outfit, and a credit at St. Louis, so that he can draw $125 every three months, and meanwhile his collections will come to hand to encourage us. Let him stay 2 years, and if he is enaptic he will reap a fine harvest for botany, and accumulate a pretty little sum for himself, and learn a profession, for so that of a collector now is. Drummond made money, quite largely.

2nd. To provide against risk, I propose that we take a share of the ultimate responsibility in case of

Fendler's death. — Again Mr. Lowell must have the 1st Ser. you mention, instead of Hooker, if he wants it.

I like the plans you suggest about mentioning all the plants collected, whether ~~it enough~~ enough to distribute or not. It is not worth while to be very particular about the numbers all running in systematic order.

I had rather Fendler would go North & West. than South of St. Fe. New Spain & Rky Mountain Botany is far more interesting to us than Mexican. —

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

I have the 8va fasc. of Ledeb. Fl. Rossica. Successive ones skipped because you have the collection for examination!

How do you send the box? overland, or by N. Orleans? For the latter I will ask Mr. Lowell to give you the address of his agent there, who will receive & promptly ship to Boston our things. Shall I send there a copy of my Manual, now out, and also the Genera Illustr. now fast printing?

Yours truly A. Gray

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MISSOURI BOTANICAL GARDEN

Dr. George Engelmann

St. Louis

Missouri

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Rec^d March 16th 1848
Ans March 23

My dear Sir,

I return Dr. Engelmann's letter & send you one from Boott received today.

The Fendler collection has very interesting & remarkably fine specimens—

He must go out again, decidedly; & I will contribute $200. & as much more next year if wanted—

Yr truly
A Gray

Penb. Dy. 4 Mar. 1848

Cambridge March 6th 1848

Dear C. Here is Mr. Loring's reply; brief but to the point. This, with what you can perhaps realize at once in the mart at once from subscribers (Shall I solicit out.— the latter will surely advance 75 more now, if you ask him) will make a good immediate outfit.— Meanwhile the proceeds from sales will form a further fund for him to draw upon ~~at~~ from St. Le.— at St. Louis, as he needs during the summer. and then we will make his next summer's collections, with Mr. Lowell's next $200. support him

as long as he will stay. — till he can come home with a large harvest! So send them off at once. (I will also pay for seeds — when I get them. But I have no right to advance. For Mr. Foulks $200. you may draw on him or me, as you choose: or me will remit at once, according to your direction.

Fieldings writes from England, for as large a set as he can spare (He also asks for ~~seeds~~ rare cacti of Lindheimer). I suppose Fielding — also others, would now pretty advance — after getting their sets of present coll. if we could put them cheaper to such as run such risks. How would this do. Lindheimers ~~Explorations~~ plants as soon as you can. for I want to send work up there soon. Work up what families you like. Leave the rest to me. — D.V. I am to be married on the 4th May!

Yours ever A. Gray

Geo. Engelmann
St. Louis
Missouri

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec'd March 27
Ans. April 3d

Cambridge 15 March.

Dear E.

I hope you have made a the
-tabling ya that Lamb will advance $200
for sending back Sedler.

I saw Nuttall the day before he sailed
for Liverpool — I asked him to see Fielding
who lives not far from him in Lancashire &
ask him if he would advance tabling them
that I should recommend to Sedler & say if
yourself to place there who advanced money
advantage somewhat proportionate to the note they
in respect to mine as well as early chance
ra- Nuttall said he had not
at collection
doubt Fielding would advance
to answer his application for a set of Sedler's plants
- which he made immediately on seeing the notice in Hooker's Jour.
Botany - tho him he should have as good chance as
possible now. — and a good chance practically I Sedler
went back — Better than all, Mr. Nuttall
offered to advance $100 for the present purpose —
and has sent to me an order on his agent at
Philad.a — for that sum payable on May next.
Now all is right. Send him off — As soon
as the sets come. I will ask Greene also
to advance another $50 — & forward to you. With
this nice specimens we can get subscribers enough. —

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Have yours of the 27 Feb. — Am. Chart.
or did you send the box,
I will send the package for Brown, as you
direct. Give me the name of a good
Commercial agent there — who would receive & forward
packages — for he can send on to Germany more
rapidly than we can, by U. S. Steamers, —
I'll look after Fendler's Commission
& collections
Report
Your Rus has improved — but not yet published his
N. Expedition — has probably forgotten it is not published
I think I could get you send Bacteria —
But as parcels &
draft. If I can post them
Seed Case — I will take care of such packages.
Please send a parcel for you. containing
Mag. Manuals (a present of course) to Newleans, to
Mrs. Lowell's agents there (free of expense) — Mr.
Thos. P. Bancroft — & his partner is J. P. Labarre.
They are great Cotton buyers —
Every business man knows personally the parcel & send up
to you at N. Orleans.
Yours
A. Gray

Thos P. Bancroft in NOrleans till 15–20 May
I. P. Labouisse probably all Summer

TANICAL GARDEN
MANN PAPERS

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Dr. Geo. Engelmann

St. Louis

Missouri

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Rec - Apr 25
Ans Apr 29

Cambridge, April 17. 1848.

My Dear Doctor.

Being down at the Village this morning. I finding your letter of the 3d. at the P. O. I sit down here to write before going home. — I had your letter of March 23d. — and was about to answer it. — — was disappointed that Dr Gardner would not back up at once and be off again — hope he still will — and here we can support him well there — and that he will make a very fine collection next time. — I hope, by the time you get this he will conclude to go. —

I did not exactly understand how the 3 boxes are sent to me — by Express? or to await the opening of the Canal — or by Railroad. — Was not by Express via N. Orleans & Galveston. — And why not send the seeds — and why not Dr Gardners plants by Express. — I finish my Senior Week. early this week. and could begin to study Theology soon. — even before I am married, which will be (D.V.) on the

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4th of May. Mr. Clucy wants a set of Sandies — Mr. Lovell sure that am — or at least for the whole amount of his subscription & 2 or three people I know will want them. — also Bartram — I think. —
You will have received a letter from Hooker asking for a set for Dr. Leman — who is very anxious for a full set.
I have told you of Fielding also. —
I shall be glad to see the new Lond Rum. Ellis. —

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

× As to Gray — I will write Macy — but he has his hands so full she will hardly notice a letter merely. — You ask Bartram to apply to him. that will secure it. —
Nuttall has published a synopsis of Hamilton's Plants in the Proceedings of Academy of Natural Sciences. — Philada — it should be sent to you. But they are to appear in detail in the Journal of the Academy

Mr. Lovell has subscribed for a set of his Plates — so we shall have the means of comparison. —

You should have got a copy of your Manual I sent to N. Orleans in Nov. I have done nothing with the Ferns. — I am anxious for the publication of Kunze's paper on Silicea — Pray translate it and send to Silliman or me —

As to your Monogr. of Cupressineæ — when done send it to our American Academy. We will print it at once — very nicely & give you 150 copies extra. — and engrave all your drawings. I care not how many. 20 Plates &c if you wish. —

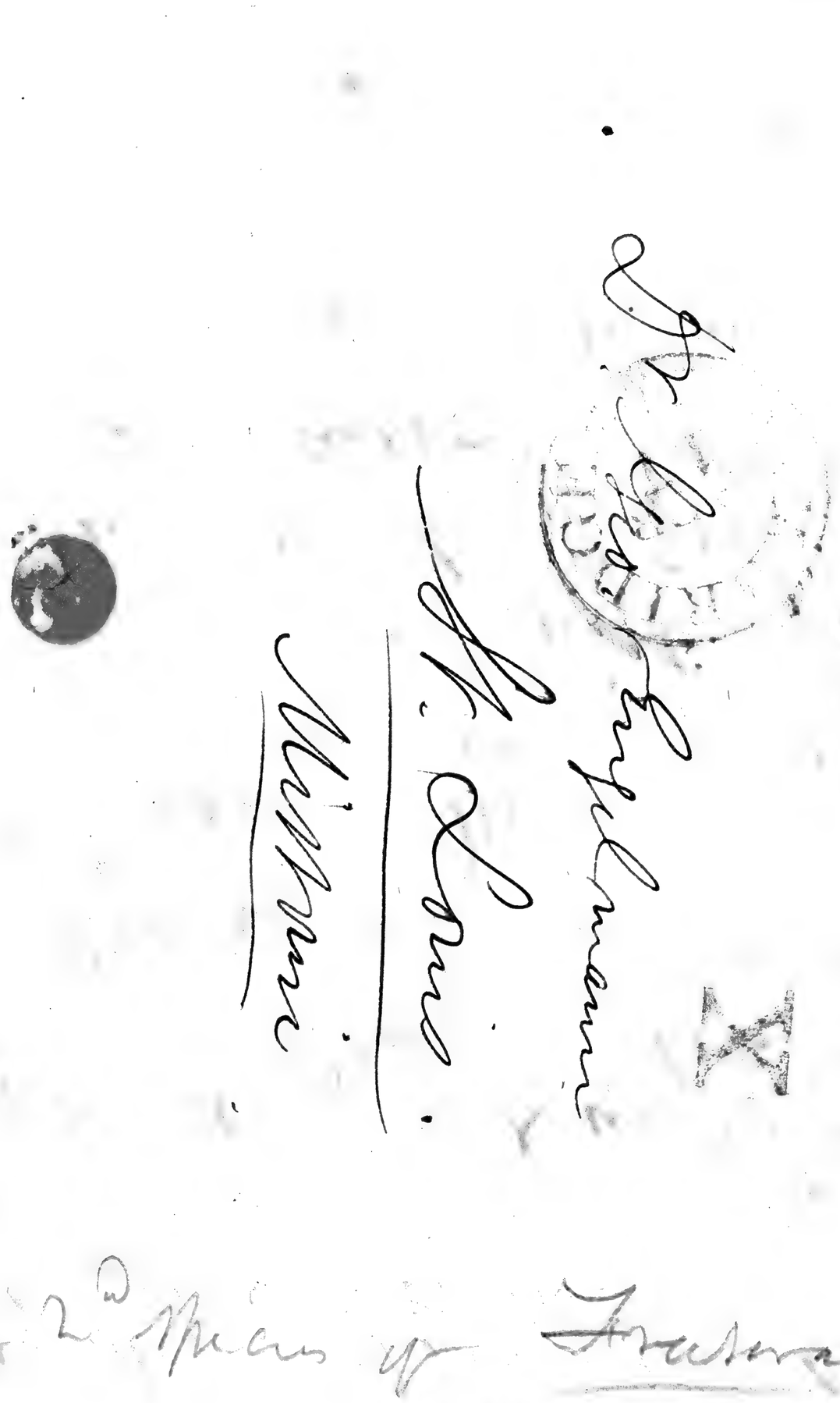
How soon will the rest of your set of Ferdinandea Plants be here.?

Tell Sinclair he is a fool. if he does not go back to N. Ze. — —

We wish to present Protection for him & and office, if he wishes to stay here. Yours A. Gray

GARDEN PAPERS

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The 2d Means of Increase is probably
not unusual — Answer. Same as 1st means
of Mrs Montana Plant; & 3d wide Compass
with Southern & Ohio Pl. — As

they are arrived. [illegible] Lowell thre

Dear C. The "Vesicaria umbellata"
Pl. Lindh. (by which I have illustrated
the genus in Geneva M.S.) elongates
its racemes a good deal in my [illegible] cultiv-
vated specimens - especially when the lower
flowers fail to fruit: As this makes the name
less appropriate, allow me to call it V. Engelmannii




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May 15. 1848.

Rec^d May 26th
Ans June 1st

Dear G.

I have rec^d the copies of your appx. to Mexicans, & lately that at Report it self with a copy per Hooker also — which I have forwarded to him yesterday.

The boxes with Fendlers plants &c — have not yet come. — I begin to be much anxious about them. Pray enquire after them at your end — and trace them as far as you can. I could run up at Fendlers call — My Genera vol. 1. is out I put up a copy — (in paper cover) & send by mail to-day. If, on enquiry I find the postage will not be too high — It is a copy which you are to give Mr. Lowell, who send it, in exchange for plants, you sent him. &c —

I want the seeds, too, which are in those boxes — It is a pity to get them late. In that they are assisted by cold before flowering & fruiting.

You should send to Lowell the shorter sets of Fendlers plants, enough to make up his £150. — He will give them to exchange with, abroad.

Yours heartily &
truly
A Gray.

P. S. When your MSS. & Drawings are ready, let me have your Memoir in Transactions for publication in Amer. Acad. Memoirs 4to. We will publish as many plates as you wish. —
A.G.

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Recommd by Gunra to Braun —
and ask him to see if he can cause some
copies to be sold, A.G.

I wish I had your Conspectus of Nilsing.
I think of writing a little paper on Northern
Compositae — so an offpr. to Fendler's —

MISSOURI BOTANICAL
GEORGE ENGELMANN

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April 17 — 1848

Dear E.

I write yesterday, in reply to your last. —

I now glance again over your letter of the 23d March — I daily hope to hear that Mr Clemens Report is out at Washington — Mr Tindall looked over the Tindler set you sent me — and says there is not one same as Gambelli's — in fact Gambell left most of his St. Lee. Collection. —

"Aster squamosus. Walt. = A squarrosus, evidently — but I have it not from Texas. —

I write the Prefect. to the 1st vol. of Sumichrast. this evening — The next thing to print is Plantæ Lindheimeranæ. — Mr the Compositæ & Grasses & other collections from Mr Lindheimer sent me. or last Mr Buckley — Many Cork pens, & by Express — Many thanks for your courtesy — congratulations on my approaching marriage. I shall write to all the nine

advantage after all gets settled
here.

Yours ever,

Asa Gray

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Rec'd June 3rd
Ans. June 10th

Cambridge 25th May 1846

Dear Doctor

Yesterday I got yours of the 14th inst. The last before was of April 19. — I reply hastily, — first of all, that I am most concerned about that the boxes sent via Buffalo have not come. — I have kept up repeated enquiries about them — thus far in vain. — Intelligent Shusty, as I suppose he is. I presume some clerkship or other office might be got for him at Santa Fe. As soon as the packages come I can collect proceeds for them (the delay by your sending is very bad for him) But I cannot advance at present, being much in debt & unable with the Genera — — nor can I now ask Mr. Lowell further. If he goes to Santa Fe. he can get $300 on your draft.

I have (Mr Lizzens Report. but have not found time to look it over.

I shall see Mr. Lowell tomorrow. I will ask, but I think he should have one of the other (smaller) sets if he wants it. I will enquire about it — I think he will not wish to have any money refunded. Honor. —

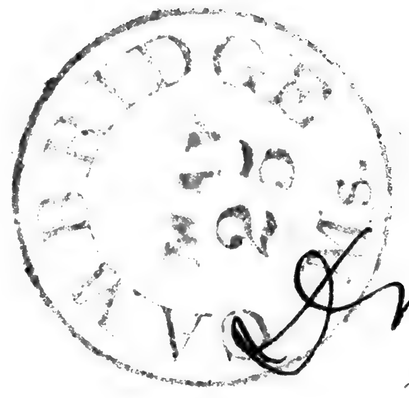
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Many thanks for your kind good wishes.
I was pleased on the 4th to
receive a great basket
of grapes from
A. Gray

Missouri Botanical
GEORGE Engelmann

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Dr Geo. Engelmann

St. Louis

Missouri

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Rec'd June 14th

Bankridge. June 5. 1847.

Dear Engelmann

I have only a moment to say that the boxes from you (3 boxes) have just come — in good condition — just as I was running on to Newyork — to-day. — I take the seeds for Hooker & send by Steamer from Newyork wh. goes on Wednesday. —

Yours ever

A. Gray

Very pleasant to write on this paper much to be preferred to the smooth paper which is to get here no blotting every stroke of the pen tells

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Rec'd June 2[illegible]
Ans July 26

Cambridge June 13 1846.

My Dear Doctor

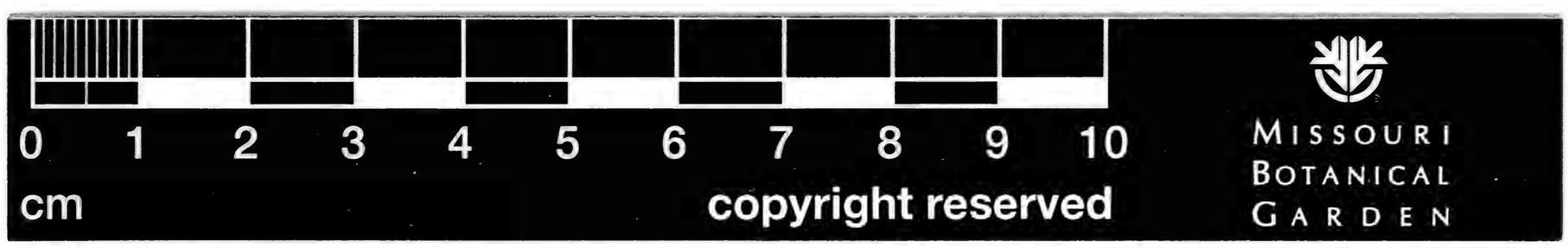
Returning home this morning, I found the two great boxes, sent to Mr Lowell. — I have just unpacked them — in fine order apparently, but just too late to send by Boston steamer of to-morrow. — But I will send them by the next week. from Salem.

In the sets I notice one mistake. viz. a very good set put up for John Lowell. Now he has all along said he was too poor to subscribe for these, but his brother wanted a good set. — So I shall put on L. J. C. the set put up for John, and have that for L. J. C. to dispose of.

Again. did Oakes subscribe? I had written I will tell him a set has come for him any how. —

I'll try to see Mr Lowell tomorrow. and see what he will do. — & see what the two large boxes cost. — My 3 small ones cost $5.67.

I must send you another copy of Manual by mail, if that to N. H. does not come by the next letter you write me.



I do want Michigan Compositae & all Greggs — that is merely all of the 1st package — for all those forwarded by app to me by Mail. never came to hand. (his 2nd coll. came to N. Engr Mus. Smut. — the has decided with me — (& with) & has sent me the Compositae — many & curious — I am glad to study all with those from Fendler — & I find many the same as similar forms — I want to touch up all these Compositae & New Mexico &c — when I get about it therefore pray send me your Compositae & these reprints by Express.

I think I wrote since that the Mss. from Kunze & Fenzl came safely, and is posted in Gillman. I added only a note or two — no time.

The Cacti from the lot you sent were part dead but part alive.

Thanks for what you say of Geneva — I shall send a lot of copies to Rieding as Hamburgh soon as I hear the blockade is over, to supply the booksellers who will have it.

Cactus seeds (2 pkg.) came in Letter & are sown

I will see Mr. Lovell to-morrow.

Asa.

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P. S. I saw Mr. Lowell — but in haste — he leaves to us. but I infer would like to have his remittance back tho: he will wait as long as you please: I think we will keep for him our additional letter — you set — that addressed to S. T. Carey for instance — as I shall send that directed to T. Carey to him. —

Send right away the MS. of any families you choose to elaborate Handlis. I will do the rest as well as I can — & soon.

Mr Skeman — who is a rather troublesome customer — wishes not to pay for his set until Sept. — I can then pass it over to Mr. Lowell.

Yours ever

A. Gray

P. S. I like the looks of the Mississippis paper well. but have had no time to examine it. —

A. G.

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Dr. Geo. Engelmann
St. Louis
Missouri

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Dear Doctor

Enclosed are to
No 11 (distrib. 13) & Sandler.

It is neither in my set nor
in that parcel you sent to be
returned. — It is the 1st after
Delphinium arizonicum.

Yours
Sandler.

Help me about -
No. 23 (distrib. 38, 39.) I have only
a branch with ripe siliques, no
leaves at all. — Scant flower at the
apex. Like Stenophanthus. Calyx rose-colr.
Have you sliqe to enable me to charac-
terise it. — Extra dros are accumbent.

Initials

for 1 Nov. 28 (45.) (Cardamine cordifolia
n. sp.) In the sets they are distributed
as 28. — If this is made through
I need not cite the parent numbers
in my Enumeration.
From what I see, I suppose I
need not cite the parent numbers
in the

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GEORGE ENGELMANN, MATUS

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Recd July 23d
Ans July 26

July 17 — 1868

Dear Engelmann —

I herewith remit $78. — in a check.

I have waited to hear from S. T. Carey (Has he not remitted to you direct!) Cleveland & Baker — who do not

Mackenzie — will not pay

write or remit. —

until Sept. — for my present remittance —

Carey — $42.20

Carries money &c — S. T. Carey (I gave him that

The set addressed to

marked John Carey, a lawyer one). — which I take myself

26.00

& give a part to Dr. Torrey —

10.00

For seeds from Santa Fe — from Garden —

$78.20

I go on a journey now for 12 days —

will write on my return

Shall be to make

further remittance then. —

I am getting on well in studying the

Santa Fe Plants. — will send you results

soon. —

Charge to Mr. Lovell, on your own account with

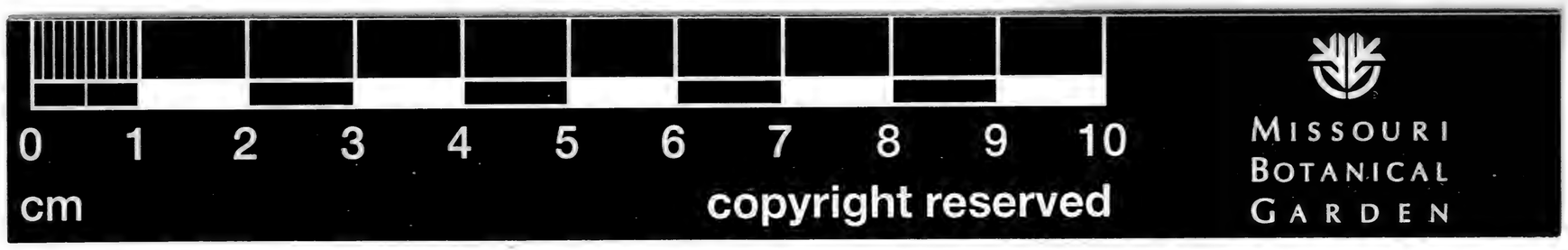
him — the value of the Lindheimer & Nich. seeds. —

In greatest haste —

Dr. Torrey having been with me Lisson — Thos truly

A. Gray

Zuccarini is dead & Kunth seriously ill: ...



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Rec'd Aug 12th
A. Aug 14

Cambridge. Aug. 2. 1844.

Dear Lapham.—

Trusting you have my Fourth of July
13. with enclosed check of $78.00— I remain
inform you that I have been away from home
till now.

Returning I have only, in addition the
proceeds from S. T. Lacey's set of Sterilis Plants,
—viz. $38.00. which I herewith enclose a
St. Louis check to your order— The set was
$38.60.— but 60 cts has been deducted for John Lacey
who paid that sum for you, he says.—

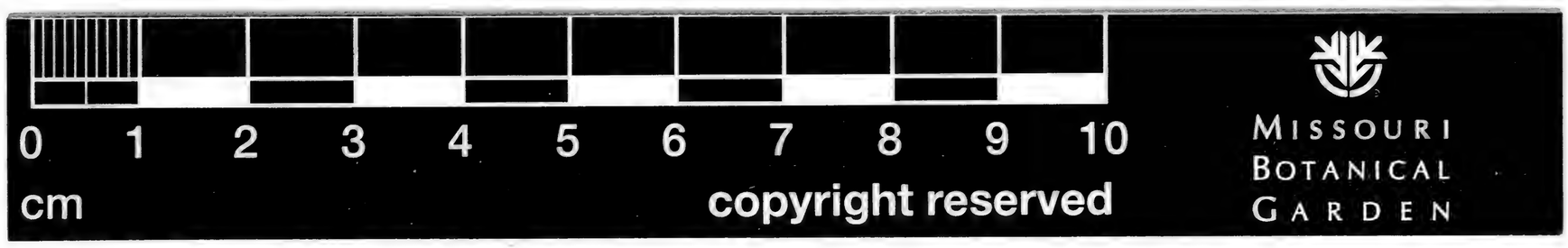
From Cleveland I hope soon to collect. $25.60.—
From Lackman in Sept.— 1st.—

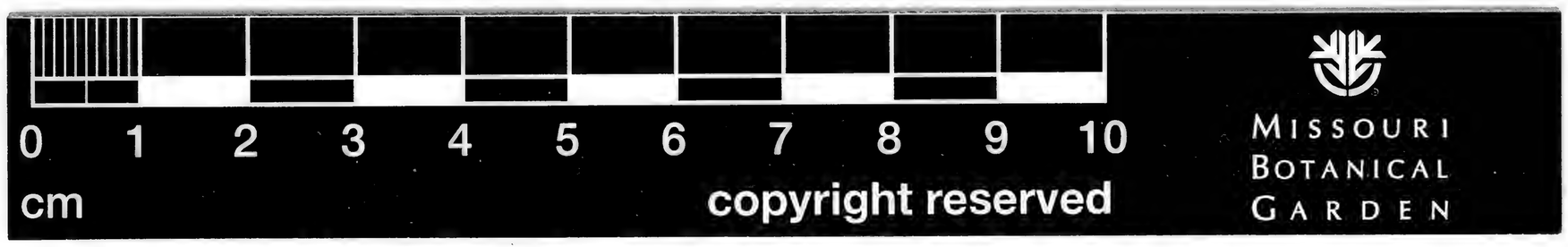
Oakes' set I must get back. It is said to
tell you that the poor man— who has been
lately much distressed about the state of his pecuniary
affairs— as I now find— on Monday destroyed
himself by drowning!

There is some fear that Sprague & I lose by
him about $20.—

I now go at the Fender collection again,
in haste Yours ever
the real.—

A. Gray




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Rec'd Sept 14th Ans Sept 18

Engelmann

Send me specimens of Sida hispida. fr. St. Louis. I have misland some Mentes Agnus on it. This is not a Sida. is it

I want to pipe Grasses August Flowering & in Grama — might answer — Will you not send me a immature fruit only. The expanded flowers & fr. letter & a flower bud — have it a ripe fruit or

Dear Engelmann:

July 6, Sept. 1868.

I have unplied to your favors from July 26 to Aug. 2 — & sent you Asa Gray's Report. You will know that I do not think it worth the while to print the Botanical part of the Reports — I have not seen that Report yet — Torrey is himself (and from pleased with the Plates, they are not drawn in a botanical manner, as you desiriate. I noticed the germination of the Bolivania — The gland was accidentally left out of the Plate & but I had marked it to be put on in the rest of the ed. when struck off. It is also omitted in the Bolivania did not come up with me. — The box by Express came last Saturday — Many thanks $5.00. — I sent yesterday to Bolton to see Mr. Lesquereux

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last did not find him. — I have no doubt however that he will take the sets of Fendl. Pl. — you have sent. I will let you know

I charge $3.00 of the freight of said box to account of Fendler Plants. — you should charge it against Lowell (if he takes them, which he will, I am sure) & the $2.00 I assume myself. —

I have looked over the parcel of Fl. Plants from Germany — packed up again for return to you — & enclose a note on them — Glad to know what some of these names belong to.

I have been detained over the Malvaceae I sent to Imray for Materials — & meanwhile went on with Engem. Fendl. into Leguminosae, & when I get the materials went back to Malvaceae — made a pretty complete examination — noticing also Hupp's & Texan Plants when they fell in my way.

I will endeavor to get rid of my determinations pretty soon. It takes a deal of time to make all these investigations — & the papers you study I will print from your MSS. You may write only on one side of the paper, — that I may cut it up, if need be, to insert any thing, or correct any unidiomatic English — tho' your English is generally quite pure.

The Malvaceae Fendl. is all Wrights (also M. Thurberi, Torr. Mex. Bound. Surv. Malvastrum Rusbyi (Sida Rusbyi) the M. discolor — except as a var. —

I am pleased that you find Diplacanthus, Micranthes make large flowers early in the season —

I wish you would take the Malvaceae Kansana is now flowering in the Garden — Hardy — & looks truly distinct —

MISSOURI BOTANICAL GEORGE ENGELMANN

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MISSOURI BOTANICAL GARDEN

The Galiums ~~77~~ 78. Finds = T. paniflorum, Mart.
(Mrs. Torrey) I have Galiums apparently T. reflexum, Linn.
" " " " " 2c.
— Thanks for all your strictures upon my Manual. —
I am glad to hear your sharp eye is so well. —
Done in great haste — and all parts of letter not
only intended to serve a temporary purpose, you must
not expect it to be very perfect. — I note all your
remarks for another edition — Go on with them. &
I will use them hereafter. —

Amaranthus tamariscinus I have not in flower — from
Mrs. or Heads seed. —

Send me a true Polygonum Coppallinum. —
— Your remarks on that genus will be useful when more
species are studied — I have. but slightly studied them.
N. of Euphratica —
I must look at the Androcera.

As to Curator I had sent to Wight in
Texas & loaned it to him. — But just before
my letter could reach him. I got one saying
he was going to be with Capt. Veatch, on the
Rio ~~Grande~~ Del Norte till Oct. — I fear my letter
has not been forwarded to him. but when it does
get it I have very little doubt he will accept
my proposition & it is only in case he declines that I could engage
Fendler. For if I should & then Wright should come on,
I should be in a fix. If Fendler should not depend
on it at all. But if I hear from W. that he declines I should
like to take F. — I thought I should have heard from W. before this.

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To the Expl. Expos. Mass I shall do little
or [illegible] till I get [illegible] things off my hand.
I took [illegible] with the hope of putting out
many families into the [illegible] of others. Will
you not take some? — The Arsenites I cannot —
if there are any to speak of — & bacteæ —
Will you not take Euphorbiaceæ?

Yr Sincerely
Asa Gray

Engelmann.

Rec'd Sept 25
Ans'd Oct 6

Cambridge. 12th Sept. 1844.

Dear Doctor.

I think I asked you for flowers & fruit of Spiraea angustifolia in my last letter — that I might figure it for the Genera — If you can please send in a letter.

Yesterday I had a letter, dated July 21, from Mr. Wright now on the Rio Grande with Capt. Veatch — He had not yet got mine from Austin: but in his he makes a proposition which makes it sure that he will come on here in the autumn & act as my curator for a while as I spend time in Texas — After spending some time ~~here~~ and here, and learning much, he is favorably disposed to go to Santa Fe to explore — if we can send him.

It is now so certain that he will accept my offer that it is clear I cannot have Sandler now. I am still anxious to serve him any way I can.

I have, raised from seeds of Wright, Texas, a new genus of Malvaceæ I have never seen yet from elsewhere. Small yellow flowers 3 or 5 in each involucre like the outer calyx of Malope, & three carpels distinct.

P.S. — I mistake carpels. It is a Malachra!

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The 5-valved thing splitting in the
pod of Androcera is the calyx! under
that, in the fresh plant. I find nothing but the pericarp.
Mr. Lowell will take the b
sets of plants Hendl. you sent.

Let me fill this sheet with some determinations of Hendlers plants. When I begin to print I shall send you a proof of the 1st sheets & wait for your corrections & suggestions.

I believe I have reported up to Cruciferæ

38. Vesicaria alpina. Nutt
39. V. arctica Hook.? — to be re-examined.
40. V. Hendleri, n. sp.
41. Draba cuneifolia. Nutt.
42. " micrantha.
43. " aurea, Vahl.
44 Thlaspi Cochlearinum.
45. Lepidium medium
46 " alyssoides. n. sp. (also Texan coll. 3d.)
55. Dryopetalon spathulides, n. sp.
56 " linella. sp. nov.
60 " cordata.
63. Silene Menziesii.
64 " Antirrhina.
65 " Drummondii. Var.
66 " Hendleri??
67 " stellata.

47. Cristatella Jamesii
48. Polanisia trachysp.
I have P. uniglandulosa
now from Mexico, Coulter.
like this. but much larger.
49. Cleome integrifolia
50. Viola canadensis.
51. V. Canadensis.
52. Lechea sp.
53 Hypericum Scouleri.
54 Sedgina Lineae.
57. Arenaria Hendleyana n. sp.
58 & 62 Stellaria longipes.
59. Malvastrum umbrosa.
61. Geranium pratense.
68. Argythia dichotoma.
69. Paronychia Jamesii
70. " serpyllifolia.

18. Nasturtium sinuatum, Nutt
19 " Nuttallii, Nutt.
20 " palustre — Asaph.
21 " Sphaerocarpum. sp. nov.
30 — too poor to determine.
32 Sisymbr. canescens. Nutt
33–35 Erysimum asperum. 36 Stanleya pinnatifida. 31 & 34 Sisymbr. Nuttallii. —

22. Streptanthus longisiliquus.
23. S. micranthus. Watts
24 S. linearifolius. sp. nov.
25. Malcolmia maritima
26. Turritis glabra
27 T. patula.
28. Cardamine cordifolia.

72. "Talinum calycinum E." (Please save me a dried specimen.
71. T. paniculatum. Nutt. 73. Portulaca pilosa. 74 "P. Jamaica.

75. Malva borealis.
76. 77. Malva (ballardiae) involucrata.
78. Sphaeralcea miniata (Malva, bot.?)
79. Sidalcea Neo-Mexicana. (New genus of Torrey sp. = Sida malvaeflora Ind. S. Agara. Nutt. Delphinifolia. California. Diplosceptha. —)

80 S. candida. n. sp.
81. 82. Malvastrum (n. g.) coccineum. / I have a long extension on Malvacea.
83. Linum perenne. 84 5. L. Berland. & 6. L. sibiricum.
87 Erod. cicut.
88. Geranium maculat. v. albiflorum.
89, 90. " pantagynum. E. Why not same?
91. Oxalis corniculatus. 92 O. stricta. 93. " Impatiens. pallida
94, 95. Phlox angustifolia. Banks.
96. R. aspallina
97 R. ———— 98. R. Fraxic. 99. R. trifoliata. Nutt.
100 Kallstroemia maxima.
101 Acer 3-partitum.
102 Negundo aceroides var.
105. Pachystima (Raf.) Myrsinites. = Canbyi. Nutt.
106. Ceanothus Fendleri, n. sp.
107. Vitis riparia. Mx. 108 Amplopsis.
109 Polygala sanguinea. 110. P. alba. Nutt. 114 Cercocarpus ledifolius
111. Vicia truncata. 112. V. americana. 113. V. micrantha.
115. Lathyrus polymorphus. 116. L. lineare. ? 117 Oxytropis Lambertii
118 Apios tuberosa
119 (117-120 ?) 119?
120 Amphicarpa monoica
121. Glycyrrhiza-lepidota
122 Psoralea floribunda. 123. P. argophylla. 124, 125. Amorpha canescens.
126. A. fruticosa var.
127 Dalea alopecuroides. 128. D. lanata. Spreng. 129. D. aurea.
130 D. mana. Torr. ined. also in Ives. L. 131. D. lasiflora. 132. D. formosa.
133. D. Lanerii.
134 Petalostemon villosum. 135. P. candidum. 136. 137. P. violaceum. 138
139. " macrostachyum.
140. Trifolium involucratum. Willd.



141. Melilotus parviflora.
142. Medicago sativa.
143. Astragalus Purshiana.
144 Astragalus or Phaca. no fruit - can't tell.
146. Astrag. canadensis.
146. A. pachycarpus. ? I think) 147. white var. of same.
148. A.?
149. A. Missouriensis. Nutt. (A. melanocarpus, Richard.! Hooker!)
150. A. hyssopifolius.
151. = ~~Hq?~~ Q. - Single specimen. fruit only Astrag. - dare not describe
152. A. multissimus Torr?
153 A. multissimus. Torr.
154 Oxyt. Lambertii. var.
155. O. campestris β. Spicata et Hook.
156. Astrag. Nuttallianus β.
157. Phaca Fendleri. n. sp.
158. Not in my set, nor those you sent. What is it. *
159. Phaca tristis, Lieb.(?) = Pl. Cantor. under that name (wrong name!)
160. P. macrocarpa. n. sp.
161. P. pieta. n. sp.
162–5. – Named by me
166. Lupinus leucophyllus?
167. var. of 166?
168 L. laxiflorus var.? subglabra. Fl. minoribus?
169. L. decumbens. Torr.
170. Thermopsis montana, Nutt.
171. ~~Not Species. What is it?~~ Sophora sericea, Nutt.
172 "bracts" 177. "S. sericea. apex Nutt
173. Hoffmanseggia Jamesii 178. Desmanthus brachylobus. Nutt
174. "Cassia Chamaecr. 175. C. marilandica" 179. D. Jamesii.
176. Kentrophyta montana. Nutt. 180 No specimen. What is it?
181 Mimosa borealis, n. sp fruit only!

* 158 is not in Lowell's set either. What is it.

Sept. 16. —

Dear Doctor

Please send on your notes on the
Cactæ of Tender &c — & any other families
you chose —

I mean to print as soon as I can. —

Truly thine

A. Gray

I trust you will take the
Compositæ too. — Can I aid you +

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X

Dr. Geo. Engelmann

St. Louis

Missouri

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Rec'd Octob 13 1848 Engl.
Ans Oct 15

183. I have only flowers & pressed & dried.
Is it not Arisæma triphyllum?

Do you know anything of the Arcenthobium Oxycedri
Ind. No. 283. I suppose it would be Viscum
Ind. 284. Arcenthobium. Have you any Abietinate in
Ind. 852. Have you any Picea, which attend to
are the styles 2 or 3 fingered
fingers, and it is an Arcenthobium by the author
I Chapt. 281, is one also.

Dear Hookerianum —

I have your favor of Sept. 18th & thirty
first Sept. ult. Are you making any arrange-
ment with Hookers about remitting the proceeds of Standish
collections? — having to pay the London Agent
set of Hartwig Balf. Mantz I fear Hookers & Co pay the
paid only the amount of his own set £10 — & should
A former letter of Hookers spoke of the sets being sent into
Howard's hands for distribution & left it entirely with
per Hooker himself to have the cash as far as possible
unite by to pay over to Bentt, and send an order
for Howard to pay over to Bentt, deducting his commissions,
as fast as collected. Poor Parkes's collections will not
I think it probable that I shall make some arrangement
for John Carey to take it. — He is now with me — probably with
he has been a good deal this winter. &

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help me some. —

I should like something like a specimen — fruit & flowers &c of Lida hispida in your next letter. —

In your first parcel I should like to have Malvaceæ & any thing else. you have not determined and would like me to look at or study. I have good materials for — having a pretty good set of Southern Mexican plants, but mostly unlabelled. —

I will send all back, except when they will furnish a duplicate. —

In the small parcels you favored me this Spring I find several Leguminosæ & 2 Malvaceæ. (One of them same as Fendler's Sphæralcea incana. Mss. — (which seems too near S. miniata. (Torr. no. 78) and several Leguminosæ, which I am going to study now. —

In my next I will copy off my determinations up to Compositæ or Scrophularineæ.

I will take up Acalypha monoeca when I get at Euphorbiaceæ. But as you will do that family it will have as much as it can do to study the three Bahamas Acalyphas. Secure good characters of the three Bahamas & I have two growing all

Secure seed of the new Jamaica Thrinax if not out. I have not, or have not yet noticed, Grisebach's Cuba work.

I had done considerable at Alternanthera in Engelmann's Herbarium. Need — but I should rather like to study (after you) the Gentianeæ.

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As to a Monographic of Asclepiadeæ with figures, I doubt whether Torrey will be likely to do it very soon. Perhaps he may. It would be best for you to correspond with Torrey about it. One or the other of you should do it, — each privately conferring as to names. Very likely he would be glad to have you do it.

The Asclepiadeæ of Oregon & California. Expl. Exped. are too few for Torrey to put into your hands for study. But if you will procure for me from the General Collection of Expl. Expedition, you shall have it. — Of course the Euphorbiaceæ, and if you like the Euphorbiaceæ. —

Also the Polygonaceæ. — These families, you will do of course for the Fendl. & Lindh. Collections. —

You will get the characters all right, and in the Manual they shall be all to suit you — ed. I would prefer you would prepare the Polygoneæ & Euphorbiaceæ for me.

Send on the MSS. of Lactaceæ Fendleriana. I'll begin to print soon — Send on some few remarks as to its route out and back. —

I shall send you proofs of the first sheets.

Thanks for the flowers of Yucca Gaudiana. — I found the flowery specimen in Hepp Plants sent me by Torrey — among Mimosæ. — Yours truly

A Gray

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Rec'd Octb 30th
Ans Nov 6th

Cambridge, Octob 16, 1848.

Dear Doctor

I have your postmarked 6th Oct.

Your "Erysimum nuttallii" is the description same as the Fl. Lud. but stems are only flaccid-puberulis... In your next, send me a bit of your plant in return.

Corydalis.

I can make nothing of your Corydalis. First, I do not think it a Rocky Mt. C. montana. The root is just as in my cultivated specimens, when it flowers in the Spring as a biennial (which it usually does. (they are not in the Herbarium spec.) I find the little crenulations on the bracts slightly indicated on my N. York specimens — which flower just the same size & golden color. And seed just the same. The only thing left to me is the minute pubescence on the pods — which is too variable in the specimen to rely on as a species. I should much rather view the plant as a variety under C. flavula, Raf. & As I think your C. micrantha = C. flavula, Raf. & the C. crystallina has been already in print published. I wish you would leave them till the Texan coll.s are published. Meanwhile I cite your name of C. montana.

29-31. Sisymbrium — I will admit this is different from S. officinale — I have diff.t & finer cut specimens from Kotschy & Spalding. — I adopt your name as S. incisum, (What does compound "incisi-serratum".) — It stands between S. officinale (calyx & mound values or marks) & S. tanacetifolium, L. — which is hygrometrica, Reich. — With it stands rank S. Canescens, notwithstanding the 2-seriate seed — (the pod being broader) — Old Sisymbrium is a farrago — But how it is to break up into better genera is more than I can tell.

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I copy again my determinations of the
Plants from 1 to 17.

1. Clematis ligusticaefolia Nutt.
2. C. Pitcheri.
3. Atragene Ochotensis (N. A. alpina - as we have)
4. Anemone cylindrica
5. Pulsatilla patens.
6. Caltha leptosepala -
7. Ranunculus trichotatus, H. B. K.
8. R. affinis. R. Br.
9. Aquilegia Canadensis. -
10. Delph. azureum
11 "
12. Actea rubra -
13. Thalictrum Cornuti ? (Please examine this.)
14 Baileya Aquifolium
15. B. Tenuiloba.
16. Arnica discoidea - ? Mon. Does this run into A. gracilis?
17 Erigeron aureum - var montanum -

I shall send you more specimens -

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Octob. 17 1866

Tuesday Morning

Dear Dr. Gr.—

Looking again by daylight, I have nothing to add, but that the plant No. 98 x 5 H Hartw. Species not Sp. Capitonum (Torrentis) I will send that specimen back to you. I think safely in this letter, and you can add it to your note — If you approve. I will in the envelope. Call this one G. Gardneri, Engelm. (Park Forest of this is his Torrentis, but I think not)

119. The spec in your parcel is Phaseolus Helvolus. (not Galactia)

135. — As you please. S. gracilis you like. I had noticed one plant with quite distinct petals [illegible] the flower-buds, & the other as approaching grade, which is probably not distinct. I see rather lower spike. I call it gracilis but think doubt as the species.

140. Trifolium involucratum. is the true one of Hook. "Calyx teeth longer than tube" not shorter (Calif. which this diff.)

154. The pods not so inflated as in Phaca the flora (which see (Spreff. Cal. abundant), & my spec. has no flowers: from your notes, I agree to call it new. you draw the pods so nearly. Shall I My plant in this comes near to Kunth's figure — Consider 158 as the same — Send it me in a letter — In my spec. the legumes are not curved at all, but more as in your drawing of 158 only thicker & blunt. (P. gracilenta).

180. Acacia? humilis" — Thorps Metacenes (?) I judge from the flowers you send that the plant is a Calliandra, Benth. (Cf. Lond. Jour. Bot. 3. p. 93) — I as I have a specimen of Mex. Bowl. marked "C. humilis," I would suggest that you change the name to C. nana. I will insert it under that name, with your char. unless you say otherwise.

* From Monterey (Edwards.) I have an ally, which is a low shrub

156. Mistletoe is a new & remarkable Eysenhardtia.
I propose we shall publish it together. Tell me
the habitat. I have another list the man you
gave me of the place where his plants were gathered.
The Texan Eysenhardtia seems the only E. amorphoides
I must look after the two Daleas also
as I have now a good many species of that genus.

I have received the numbers for brothers & Fielding's sets of Pl. Hartw. — Mrs Gleason
has not yet paid me. I owe Fendler three
new dollars & I daily expect to receive Gleason's
$27 — when I will remit. Lackenan has been away ever since the
packages for Lichens came. — As soon as he gets
back, I trust he will take the parcels, and pay for
them. In haste truly Yours

A. Gray

1871

GEORGE ENGELMANN PAPERS

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Erythronium — The grey bibiques of 35. are exct. but no more so than in E. Arkansanum when young. Nuttall has made too many — They are not distinguishable.

Among Greene's Plants from Torrey I have what appears to be an Andibertia. Do you know it. Is it in Wisliz. — Said me any Asclepias & Vesicaria you have of Wislizenus —

Now for Geranium. — You misled me as to your G. pentagynum by putting that name to No. 90 in Sandler's Catalogue, which bothered me for while, on the one hand it did not well accord with your character, on the other I could not separate it from 89, which is G. Fremontii. I still think No. 90 is not diff. from 89. — But with your new mss. and a specimen you gave me from Wislizenus' Coll. I now know your G. pentagynum as an erect plant, near G. maculatum. — and let me tell you the G. incisum, Nutt. has nothing to do with the G. Fremontii (your Sandler) but is much more like your G. pentagynum.

No. 89. 90. — used take the name of Fremontii; but I feel confident, from the habitat and character, that this name must give way to G. caespitosum James. — my perfect as his description is.

88. — G. alliiflorum Hook. non Ledb. (I have known the diff. from the Ledebour plant — having it & his figure — Lindley has also pointed it out) = G. Richardsonii. Fisch. & Meyer. — Prof. Gray G. maculatum has sometimes pure white flowers in Eastern States (fide D. Carey), and in Regn Veget says "Corolla white to crimson". I am strongly inclined to doubt the



characters used to separate them, and to ~~distinguish~~ consider it as a mere state of G. maculatum.

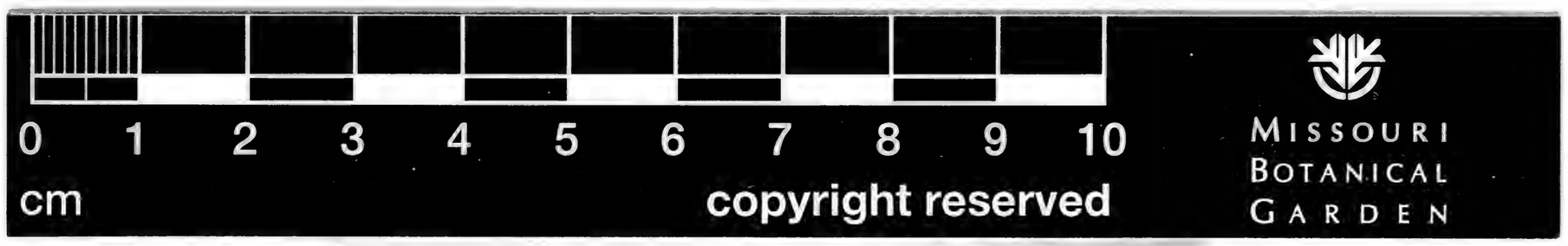
However, you may be right, & I am willing to continue an admitted name. —

211. Visit us. I have from you — & recognize it as your G. Hernandezii. — I dare say that I have it not from Coulter's coll. —
(but not Schauer in Linnaea, 20. p. 731)

Your G. gracile I have not. (Compare this with Schauis G. Hernandezii. supra cit. — You say near G. Mexicanum, Kunth?" Fortunately I have a cultivated specimen of G. Mexicanum, from the Berlin Garden — & a plant, no. 763. of Mex. Coult, which agrees with it. The short erect peduncles & stiff pinnatifid & small flowers show that it cannot be yours. My specimen of Coult. is so small I can spare little. I add a print with pedicel — & a whole 2-flowered peduncle with 2 flowers (deflorate)

Mrs. A. I can get along in Pl. Garden for the Geranium putty mill. — And I will post your note on the genus appended with such alterations as you choose to make. Let me suggest to you to alter the plan of your primary sections (*, **) & take G. Richardsonii away from G. Hernandezii — which it is very unlike, and put it with G. maculatum, which it is very like, and wants to be particularly contrasted with. The color of the petals is not quite constant in a species, & is not good for a primary section — and I see no marked difference between reticulato-foveolata" & stem. reticulate-rugulose = If a specific. characters between them very well. — If you rearrange the sections & names, let me have them print with your matured views, to print. —

N. B. In Mex. Coult I have a Plant, which is clearly G. Schiedeanum Schlecht. Peduncle very long. Flower like G. sanguineum — Lobes of the leaves pinnatifid.



Rec'd Dec. 1st
ans Dec. 21

Boston
~~Cambridge~~ November 18th 1848.

My Dear Doctor

I have to-day yours of the 7th inst. and previously those of the 15th & 28th Oct. — to which I give a hurried reply to the important points. —

1. Euphrasia. I say publish your monography rather fully, I will print it as an independant memoir in Mem. Amer. acad. — If rather brief, like a conspectus I will put it in as a long note under the genus in N. Lond. — If will be scarcely longer than a note if mine under Malaxis, if you will send your bits or specimes & your desiderata if you ask them: so far as he has them.

Euphrasia portentissima Mead gets in Illinois. I think I have it from N. Carol.

Both write me that he would get the cash in Hooker or Howards hands for Fendler — I shall get it next steamer, — I trust. Harvey of Dublin, has (I having received it back). & I shall send it soon & to take the MS addressed to Oakes — still in my hands. on him for the amount.

I will soon give you a further list of my determinatives of N. Lond. etc. — Also proofs — I have 10 pages in type — I am hard at work at Conspectus — Shall stop at the end of three: & give a part 2. afterwards — — I write away from home (watching a moment) cannot send a list now. —

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Missouri Botanical Garden
George, [illegible]



– Well, – Might has come north – to act. Senator – a while for me – Says he rather go to N. Le – & I thought we might send him in the Spring – when lo! – at length – after refusing when all was in good shape for a support – now Fenton says he will go, – eh!

Very well – It is a capital selection – & I think it the best thing he can do – unless, indeed we could get him attached to the commission that is going to run the boundary line through between the U.S. & Mexico – to join them in New Mexico & go through to California – Maj. Graham is getting the instruments ready for this – I will enquire & see if I can do any thing at Washington, – Also for Lt. Eastlick, as soon as a Lieut is made for New Mexico.

I have spoken to Mr Lovell to see if he will settle or as he said – $200 pr. Year was it not? I merely sounded him; but it seemed all right: & I am sure that he will still be glad to keep his promise. I will, soon as you are ready, get his promise renewed. – & have the first ~~cash~~ years cash ready for you by Febr. –

I have written to Philada for Nuttalls ~~instal~~ $100 – If I get a favorable reply I shall send you the draft right away. –

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GEORGE ENGELMANN PAPERS

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Never fear — I shall not like your criticisms
or be offended — The more the better, — I think we
are useful to each other, & act as good checks on
each other. — You incline to split a little too
much — I am apt to lump, especially when again
is a good deal confusd already.

I am going to compare your Dryandra Cruciata with
D. nudiflora, on Monday. — But, in your drawing I see
no diff. which might not be attributed to the greater
vigor of yours as a cultivated plant — fuller foliage, &c —
I will see — But the two look so nearly alike

Antonde:

Calliandra Tabacea — good.

I know not what Eysenhardtia & I have not Nicholson
vol. 133 — but the "Spinosa" radius is an Hartweg's Houstonia
Plat. — Real Ranunculus, no doubt. — But I have never
seen 4 rules — (only 2)) Please send in letter a
list of Nicol. no. 133. —

Asto Gordonia Ratan Mr. Plants, if there are
not very many, send in a list for me (except
Common things, also in Nicol. — Mimosa hamata I want plenty
much — send in letter. — & the Vesicaria which
has troubled me —
Perhaps — if you will send me a full set for
Lowell first (& a few you know I want) I can
point out those I should be glad to take myself —
I think that is best. But send soon. —



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I had found, meanwhile, your Manu. & Locations
Mistletoes &c—

Some further obs— will probably be needed
on your 3 letters, when I look them over Monday
with my Mss— before me.—

I have some nice genera of Compositæ—

This is my birth-day (38th!) I have
worked hard all day — & come in to see my
wife this evening— She sleeps by my side while
I am writing this long letter.— My hand is
much fatigued —

Adieu yours truly

A. Gray

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN

Acanthodium 282(312) has male flowers — yes.
I suppose Fendler is very near akin to it
I think it may be the male of 283(313) which
is A. Argyrodri.

No more of Hooker as Lyon's Pl. after Coquimbo.
I have two Polanisia unfamiliar from Mexico —
like P. trachysperma — but much larger & hairy
Lyon's style & stamens. —
see for yours 1 & 5 —

Phaca triflora (Torrey, Sheep) came originally from Mexico
156. Nish. — is a Dalea (D. lanceolata). —

I will look again at the Galactia Fendleri. — I thought
the fruit was too broad, but seemed too like Mexican
(Arkansan & Lex) fms of G. bonati — & hated to add
a troublesome genus. — I will insert
n. sp. to such a
into the proof on Monday.

Astragalus hispidus — I had part of four fragments
like yours in litt. A. pandiflora. Lindl. is figd. in Bot. Reg.
Cell. 1 A. spicifera — for "Andibetia" in my letter
read Andibetia. Orcutt. looks like Malacomia
or Matthiola —

To-day, only I have received specimen of Geranium
Fendleri (from Lyon, & can now compare. — still
doubtful (James is not much of a botanist. It is only
the size of flower & G. caespitosum be compared with G. Richardsonii.)

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86. Nis l. I had already named Salix Scouleriana.

— You shall have the free use of any Pines I have" — & I will send when you are ready for them — I must remember to send you the copy of Manual you wanted. I forgot.

I have no Cactæ, except what you have given me. — I fear, for pine-cones, I must wait for the remarks as I have only a page & ½ — 4 to spr them.

Thanks for Salix hispida. = Malvastrum angustum. The "Malva" ? 10 carpels; radicle inferior." from Llano." Lindh. I have had from Mrs Mc in a year — I also from Jersey ell. by some Mr in Mexico. I have noticed the very dilated calyx, like a Physalis & the curious fleshy carpels — But it is S. Texas. — a Salix & Radicle superior! therefore I do not describe it in Pl. Fendl. But keep the Salix for a revision — in Pl. Lindh. Nonetheless. So I do not now study your S. heterocarpa — (which I picked is one of Cavanilles. — I send you a drawing of the carpel & seed of the Llano plant — that you may see the rad. superior! send back in your next.

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Rec'd Dec 12th
Ans Dec 21st

England

Nisli 2 ans rev. 530. St. Fe. Specimen which you
note I am to Rep. "Artemisia" = Linosyris graveolens. = (341)
Pl. Fendl.

Now I have Fremont's original specimen of
Geranium Fremontii before me; also 2 small ones
(fragments) collected in the Raton Mts. by Engelm. & Hart.
(H. Fnr.) = which show that the G. Fremontii
is G. Fendleri S. - no + 90. - Pl. Fendl. - and I say -
with you, "rather too near G. pentapetum", but I
suppose diff't. in the mode of growth of the plant.
The specimens all tend to have pedicelles erecto-
ris declinatis (not "erectis") & as I had drawn the
character from the specimen returned to you in letter. -
No. 89. I still strongly think must be G. caespitosum
of Lanes. -

13. I allow quite distinct. Thalictrum Fendleri. Engm.

25 Nov. 1864.

Dear E. I enclose draft for $10 on Mr. Durand
(who has resigned the ant. of Nuttall's draft, and
holds it subject to this order. - Yours very truly

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GEORGE ENGELMANN HERBARIUM

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Rec'd Dec 15th
Ans Dec 21st

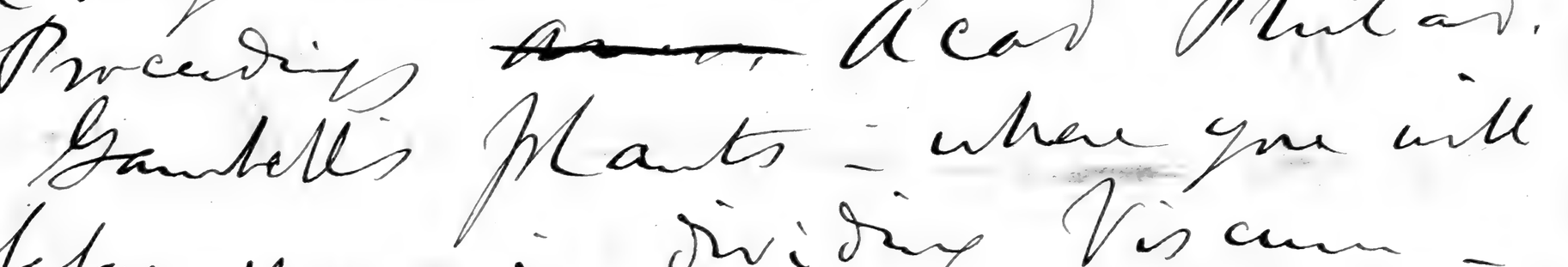
Cambridge. 30 Nov. 1846.

Printing Office

Dear C.

I received this morning your immense letter — of Nov. 15th — & hurried down to the printing office to see if I could stop sign. 2. of Al. Gard. from going to press — I had kept back sign. 1. — leaving 2 pages only blank for title & preparatory remarks — which what you send will more than fill up. if the MS. are written out. — Too late to alter now. — Why did you not send it sooner. I must shorten it vastly. —

I shall reply to the points in your letter in a day or 2. — & immediately send you the Preceding ~~sign.~~ Acad Phil ad. Sheet all on Gambelia plants — where you will find here is before you in dividing Viscum — I looked at it; but could make little of his characters. — That being anticipated — wait for better materials before the genus can be satisfactorily broken up. — I can send you



Arcanth. Oxyacth. — Barthamn pronunes
the Calif. & Mexican the same as Britatus.
— She is a good puzzle. —

But the principal thing now is —
that I want you addapt for Nottalli's
$100. — which I am concerned about now
that Fendler is so restless & changable.
— Tell him botanists (the only ones we
can rely on to purchase) are well stocked
with Californian plants. — that I will
have nothing to do with his going there
as a collector. — If he wants to go
as an adventurer merely — he must go on his
own hook. — But if he can get attached
to the ~~pa~~ Government party for running the
line between Mexico & U. S. — very well — he
can collect ~~in the first place~~ on the route
& then stay in Calif. if he pleases. — The
place to collect now is about Las. & to
get up Spanish Peak. Longs Peak &c.
If he will go & fix himself at the
Mormons town in Salt Lake. & collect in

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GEORGE ENGELMANN PA



the plains & mountains and. — that will be well. — We will have Lowell's cash for that.

I have a note from Howard to Brett. He says Nelly has not yet got back to Paris yet. w his coll. of Fund. Plants is not delivered. the others were for Brit. Mus. & for Mr. Taylor — + delivered. — but the proceeds not received yet. + of the 6 sets unadressed. or called yet. —

Not encouraging, truly. But I shall write by first steamer that he must collect the cash, immediately — Write to Bennett of Brit. Mus. also. — —

Send W. Lemon to Howard for the Carex of the B. — I send Bakes list to Harvey who will correct at once for Brit. —

The more need that I should publish at once the N. Zeal. (as far as to enquiries the inclusive) to call attention to them. — I trust. I shall then have will go. 150 copies & distribute largely abroad I have (Brit's determination of the Carices (in Hookers set) viz. —

GARDEN PAPERS

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878 C. Douglasii Britt.
881 C. Hoodii "
882 C. festiva, Dougl
884 C. munita
885 C. tenella Hook.
887 C. Lemmoni Gr.
889. C. Rossii, Britt.

He greatly wants 887. C. Lemmoni —
Can you not send a specimen to the Gr Herb?

Yours ever. — in great haste

A Gray

Rec'd Dec 20th
Ans Dec 21st
& Jan 5. 49

Cambridge Dec. 4, 1848.

My Dear Doctor

I sent you a hasty despatch on Sunday.—
Now for another.— You have arranged your gen. characters
neatly for the Vivei.— But by the extract I send
enclosed from Nuttall, it is plain that his name — Pluradenum.
will take precedence for your Spicivisceum.
Meanwhile, as I half suspect that the leaflets Amer.
species referred to Viscainia as likely genus
examined, and ~~will~~ may prove to agree with Arcuth Americ.
I had put 286 as Arcuth Americ. Ahrendi in Pl. Spharocarpum, Mex.
282 as A. Aycedi? (Stam.)? prob. type
283 as A. Aycedi. — which it is of Hook. & Arn.
I omit not — the gather Hooker, — it
Hooker, as to the Aycedi pl. of Bentham, as to a Mexican
specimen say they cannot distinguish from Beechtaas.
of Europe & Asia. — I agree with you that 283 is too
likely to be Nuttall's Americanum. —
I go to pick out some specimens to enclose for
you — and a sketch of Hooker's figure as to the essential
parts. — I do not myself feel prepared to take
ground about these, with present materials. — You can,
if you please. — Your next letter may reach me
before I get Arcuth. Americ. in spec.
Nuttalls plant & Arcuth. Americ. as you see in the Flora, I think
nothing of, as to any specimens.
On looking at my sheet, I find no European A.
Aycedis, except a poor piece (mas.) from Tenore. — which
shows nothing. I send a bit of it. "Plants have been carefully
Hooker says Drummond & Douglas "Plants have been carefully
compared with European ones found growing on Europeans Aycedes, some from the
S. of Etna, others from Caucasus, & I must confess that I can find no specific
difference in them whatever. In general, but not always, those from the old world are
are greener or blacker when dry, and the American more yellow."
And Bentham — in Voy. Sulphr. "speaking
of the California plant, says ——

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"Besides the stations already known for this parasite in the Province of N. W. America, S. Europe & S. Russia, it has been found by Linden on pine-trees on the peak of Orizaba in Mexico, & and on the closest examination of the dried specimens, I am unable to detect any difference between the European & the Mexican specimens. But as ants do not insect, agree about the color of the fruits. In California they were found to be nearly black, with a yellow top!"

Euastra

Leaden Imprimis = The plant you send enclosed

I think Leader true plan is to go back to Santa Fe and explore N. Mexico - especially the Mts. - He will try to get him some clerkship. - But if, instead, he chooses to come here, and will engage to stay two years, if we like each other, I can give him a small salary, if per cent more $250 - to act as my curator & to assist in the garden about many things - with a chance to attend scientific lectures. - But he can do better than - Mr. Wright is here, now. - He prefers exploring to anything else; - will go to Santa Fe, or wherever we choose to send him. - He is used to roughing it, & has long been in the wild & prairies. - As he is used to the Southern boundary are going to try to get him attached to the Southern boundary survey party, - to go west as far as he can - & then get into the Sierra Madre. Chiquimachi &c - or to strike up north & make head quarters at Great Salt Lake. - I think the latter. - He can explore the Plains & the Rocky Mts. Leaders can't, the Philad. acad. should buy

I'll compare Euphorbia - when we come to Texas Pl.

If you get a chance send Rubiaceae plates - with other things sent by water via N. Or. - If not put on ground to send in Spring, after danger of freezing is past.

Asters rest & Pl. Leads cannot be published just yet, perhaps I will put W your Asclep. in Pl. Exp.

or in Proceed. acad.

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I'll get a chance to look again at your 3 Cyperaceæ;
But when I had all before me. I could find no spec. di H. — I
will look again with the aid of your notes & drawings. — But
not this year. — must leave — with other things — till it comes
up naturally with Texan collections. —

Your Eleocharis — (which I at first mistook for an
Cyperaceæ — I soon after made a true Dalea & I think
it has gone to the printer. I called it Dalea lanicostachys. &
there is no doubt of it.

The sheet of copy that contains the Mimosæ is still
in my hand — for I can add the flowers of Mimosa brachis-
& introduce your Bahiensis characters. ——

It is late. Good night —

Yours truly

A Gray

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ASA GRAY PAPERS

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Dr. George Engelmann

St. Louis

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